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**Document ID:** J P 2001-201354 A2

**Title:** ON-VEHICLE NAVIGATION DEVICE

**Assignee:** ALPINE ELECTRONICS INC

**Inventor:** KIMURA TAKESHI

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### Abstract:

**PROBLEM TO BE SOLVED:** To provide real time positional relationship of one's vehicle in a traffic jam and before entering a traffic jam even though traffic information by VICS is updated only at predetermined intervals such as a five minute interval and during that time the vehicle gradually moves and its speed changes.

**SOLUTION:** The current traffic information received by a VICS receiver 2 is accumulated in a received data accumulating part 3. In a control part 1, a traffic jam starting point on a guide route based upon this data is stored in its storing part 7, and in the same way, a traffic jam departure point on the guide route is read and a traffic jam distance which is a distance between the two points is determined and stored in its storing part 6. In a traffic jam passage ratio/passage expected time calculating part 10, a traffic jam passage ratio is determined from the vehicle's positional relationship within the traffic jam distance and expected time for passing the traffic jam is determined from a portion of the traffic jam distance still left to be traveled and a present average vehicle speed for outputting them. A bar graph is plotted from the ratio, the traffic jam passage expected time is displayed, and voice output is suitably performed.

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